

providing a transgenic female non-human mammal carrying in its germline heterologous DNA segments encoding A α , B β and γ chains of fibrinogen, wherein said segments are expressed in a mammary gland of said mammal and biocompetent fibrinogen encoded by said segments is secreted into milk of said mammal;

collecting milk from said mammal; and

recovering said biocompetent fibrinogen from said milk.

19. (amended) A transgenic non-human female mammal that produces recoverable amounts of biocompetent human fibrinogen in its milk.

20. (amended) A process for producing a transgenic offspring of a mammal comprising:

providing a first DNA segment encoding a fibrinogen A α chain, a second DNA segment encoding a fibrinogen B β chain, and a third DNA segment encoding a fibrinogen γ chain, wherein each of said first, second and third segments is operably linked to additional DNA segments required for its expression in a mammary gland of a host female mammal and secretion into milk of said host female mammal;

introducing said DNA segments into a fertilized egg of a mammal of a non-human species;

inserting said egg into an oviduct or uterus of a female of said non-human species to obtain an offspring carrying said first, second and third DNA segments, wherein female progeny of said mammal express said DNA segments in a mammary gland to produce biocompetent fibrinogen.

Please add the following new claims:

--20. A method according to claim 1 wherein said species is sheep.